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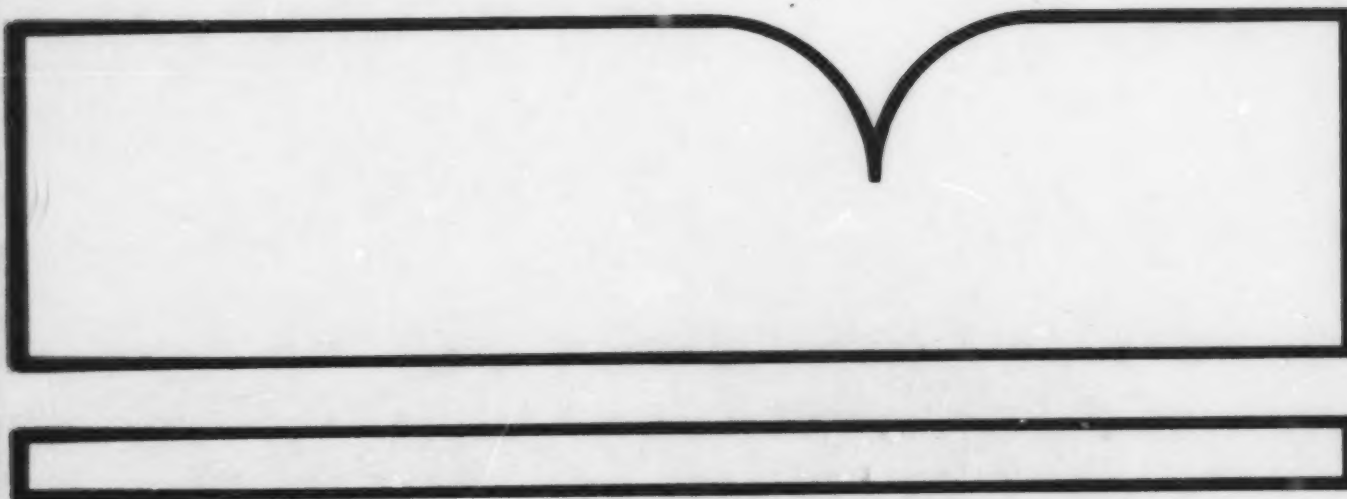
New Hampshire and Vermont Point Source Inventory
Update for NECRMP

GCA Corp.
Bedford, MA

Prepared for

Environmental Protection Agency
Research Triangle Park, NC

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New Hampshire and Vermont Point Source Emission Inventory Update for NECRMP

by

GCA Corporation
Bedford, Massachusetts 01730

Contract No. 68-02-3510

EPA Project Officer: James Southerland

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air, Noise and Radiation
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

March 1981

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CONTENTS

Abstract	111
Tables	v
Acknowledgments.	vi
1. Introduction.	1
2. Project Approach.	2
3. Discussion of Results	4
Introduction.	4
New Hampshire point source update	4
Vermont point source update	16
4. Summary	22
5. References.	23

TABLES

<u>Number</u>		<u>Page</u>
2-1	Summary of Sources Included in Update Effort by Pollutant and Size.	3
3-1	Number of Sources Updated in Each Pollutant Category, by County	5
3-2	New Hampshire Dumps	7
3-3	New Hampshire Principal NO _x Sources	10
3-4	New Hampshire Principal VOC Sources Greater Than 100 TPY. . .	11
3-5	New Hampshire Principal RACT Sources Greater Than 50 TPY. . .	12
3-6	New Hampshire Principal SO ₂ Sources Greater Than 100 TPY. . .	14
3-7	New Hampshire Principal CO Source Greater Than 500 TPY. . . .	15
3-8	New Hampshire Public Service Companies.	15
3-9	New Hampshire Sources With Information Missing.	17
3-10	Vermont NO _x Source Greater Than 100 TPY	17
3-11	Vermont Sources of VOC Greater Than 100 TPY	18
3-12	Vermont VOC RACT Sources Greater Than 50 TPY.	19
3-13	Vermont TSP Sources Greater Than 100 TPY.	20
3-14	Vermont SO ₂ Sources Greater Than 100 TPY.	20
3-15	Vermont Sources With Information Missing.	21
4-1	Summary of NEDS Transactions for New Hampshire and Vermont. .	22

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SECTION 1

INTRODUCTION

As a result of the existence of ozone transport phenomenon in the Northeast, a study (Northeast Corridor Regional Modeling Project/NECRMP) has recently been formulated to provide a photochemical modeling analysis in the area involving fourteen states. One important segment of this study is the preparation of an Emission Inventory on a temporally, spatially and pollutant allocated basis for the entire study area.

The purpose of this project is to update the annual point source emission inventories for the states of New Hampshire and Vermont. Data has been obtained from the state agencies and a comprehensive data base was prepared for use in developing the final inventory for the NECRMP Modeling Program.

SECTION 2

PROJECT APPROACH

GCA was provided with current New Hampshire and Vermont NEDS Point Source listings from NADS by the Project Officer. All sources were reviewed and classified, by major pollutant emitted and size, according to the criteria listed in Table 2-1. A list of sources to be updated was compiled according to county within each state and submitted to the EPA Project Officer and respective state agencies.

In addition, GCA obtained copies of the adopted regulations affecting sources of VOC and NO_x emissions in New Hampshire and Vermont (References 1 and 2). Growth projection data was also collected for both states (References 3 and 4). These references will be used to develop the final baseline emission inventories for 1980 and 1987. Several copies have been given to the EPA Project Officer for his information.

Visits were made to the New Hampshire and Vermont State Agencies to obtain information used to update the point sources falling into any of the prescribed categories. Any discrepancies in the data were resolved. All data changes, additions, and deletions were coded on NEDS Coding Forms in compliance with the instructions given in AEROS, Volume II. All update data were then keypunched, manually verified, and submitted to EPA Region I for addition to NEDS.

Region I processed all GCA update data through the NEDS edit checks. GCA reviewed all potential errors and resolved the discrepancies. All update data was returned to Region I and processed into NEDS. The appropriate state agencies reviewed and concurred on updates made by GCA.

TABLE 2-1. SUMMARY OF SOURCES INCLUDED IN UPDATE
EFFORT BY POLLUTANT AND SIZE

Pollutant	Source size
VOC and NO _x *	> 100 TPY
VOC*	> 300 TPY
NO _x *	> 750 TPY
RACT Sources	> 50 TPY
CO	> 300 TPY
SO ₂ and TSP if the source has VOC, NO _x or CO emissions;	> 100 TPY
Data Gaps and Inconsistencies	All

* May include RACT sources

SECTION 3

DISCUSSION OF RESULTS

INTRODUCTION

A thorough review of emissions data for Vermont and New Hampshire has been completed. Neither state presently has an area source inventory of the quality required for NECRMP. Both states are expected to be in compliance with NAAQS by 1982 and thus are not required to maintain such an inventory. The point source inventory in NEDS was scrutinized and each source classified according to principal pollutant and size as it relates to NECRMP. Each of the sources identified for update was subsequently examined, and necessary changes were coded.

Table 3-1 summarizes the number of sources updated in the major pollutant categories in each of the states, classified by county. When tabulating sources, each source was included in only one category, with category hierarchy defined from left to right across the top of the chart. Thus, if a source emitted both more than 100 tons of VOC and 100 tons of SO₂, it would be counted only in the "VOC > 100" category. All sources updated but not falling into any of the categories listed were considered "Small Sources" for tabulation purposes.

It should be noted that figures listed in Table 3-1 reflect sources as they were before the update. Hence, new sources added to NEDS are not contained in this table. Some of the sources may have grown or declined in emissions enough to put them into one of the other categories. The obvious example is in the case of source deletions: the source was counted in the category in which it fell before it was deleted. The number of deletions for a given category may then be determined by examining Tables 3-2 through 3-15 which detail the updates in each state. Where possible, the detailed tables note changes in source status. It was determined that it was not viable to do a complete update of all small point sources. However, some small point sources were updated because they were missing essential information, required deletion, etc. In New Hampshire 112 of a total of 219 small point sources (51.1%) were updated. Of a total of 126 small point sources in Vermont, updates were made to 16 (12.7%).

The remainder of this section discusses the point source updates made for New Hampshire and Vermont.

NEW HAMPSHIRE POINT SOURCE UPDATE

For New Hampshire, 209 of the 316 point sources were updated. In addition, two new sources which are classified under RACT > 50 TPY, were

TABLE 3-1. NUMBER OF SOURCES UPDATED IN EACH POLLUTANT CATEGORY, BY COUNTY^a

County	VOC [#] > 500 TPY	VOC > 100 TPY [#] but < 500 TPY	RACT > 50 TPY	NO _x > 750 TPY	NO _x but > 100 TPY < 750 TPY	CO > 500 TPY	SO ₂ or TSP > 100 TPY	Small sources ^b	County totals
<u>New Hampshire</u>									
Belknap	-	-	2	-	-	-	-	4	6
Carroll	-	-	1	-	-	-	-	10	11
Cheshire	-	5	3	-	-	-	4	12	24
Cook	-	2	1	2	1	-	-	9	15
Grafton	-	1	1	-	1	-	-	10	16
Hillsborough	2	7	8	-	1	1	3	23	45
Merrimack	-	2	1	1	1	-	4	5	14
Rockingham	3	8	4	3	-	-	3	25	46
Strafford	1	4	2	-	-	-	5	8	20
Sullivan	-	-	1	-	-	-	5	6	12
Total	6	29	24	6	4	1	27	112	209
<u>Vermont</u>									
Addison	-	2	-	-	-	-	-	3	5
Bennington	-	-	5	-	-	-	1	-	6
Caledonia	-	-	-	-	-	-	1	-	1
Chittenden	-	4	8	-	1	-	-	2	15
Essex	-	1	-	-	-	-	1	-	2
Franklin	1	-	-	-	-	-	-	1	2
Lamoille	-	-	-	-	-	-	1	-	1
Orange	-	1	1	-	-	-	-	-	2
Orleans	-	1	-	-	-	-	2	-	3
Rutland	-	1	-	-	-	-	1	2	4
Washington	-	-	-	-	-	-	-	2	2
Windham	-	1	-	-	-	-	1	6	8
Windsor	-	1	1	-	-	-	-	-	2
Total	1	12	15	0	1	0	8	16	53

^aIncludes those deleted.

^bNot qualifying in any other category.

* May include RACT Sources.

added. This figure includes the update of small sources (less than 25 tons of pollutant per year), many of which were deletions of dumps at the request of New Hampshire personnel.

Tables 3-2 through 3-8 summarize the updates for each source and are listed by county. The tables reflect the source category applicable after the update was completed. The plant name, the NEDS source I.D. number, the NEDS update action (Add, Change, or Delete), and a brief Update Description is included for each source. All updates were for the year 1979, and where no other data changes were required, the year of record alone was updated. The term "annual fuel rate" in the update description applies to the operating rate appropriate for the particular SCC category of interest. For the points which included two or more SCC categories, necessary changes were made to each and are indicated by the phrase "by SCC."

Table 3-2 lists dumps. Unless otherwise noted, the dumps fall into the small source category. Most dumps included in NEDS are no longer used for open burning, with the exception of Ossipee dump in Carroll County and Pittsburg Dump in Coos County. Those dumps not in operation were deleted from NEDS.

Table 3-3 lists the principal NO_x sources and their updates. Many of these sources additionally emit SO_2 at rates greater than 100 TPY, and one source (Brown Company-Berlin) emits CO exceeding 500 TPY as well as SO_2 . Three former NO_x sources have closed and were deleted.

Table 3-4 lists principal VOC sources which are greater than 100 TPY; exceptions and revisions are noted in the update descriptions. The only inconsistency found was that Markem Corporation in Cheshire County was duplicated in NEDS and hence 0039 was deleted. Several of these sources also emit SO_2 at rates exceeding 100 TPY.

Table 3-5 describes principal VOC RACT Sources emitting greater than 50 TPY, with a few exceptions noted in the update descriptions. For instance, Converse Rubber and Kingston Steel were both deleted because they are out of business and Sanders Associates (0110 in Hillsborough County) was deleted since it duplicated 0083 in Hillsborough County. Three sources are now emitting less than 50 TPY. The two new sources added were Bergen Patterson and Hampshire Manufacturing which were assigned NEDS I.D.'s of 0026 and 0020 in their respective counties.

Table 3-6 lists SO_2 sources emitting more than 100 TPY. None of the sources listed emit VOC or NO_x in quantities exceeding 25 TPY.

Table 3-7 lists one of two CO sources exceeding 500 TPY, Manchester Incinerator. It was deleted because it is no longer in operation. The other, Brown Company-Berling, can be found in Table 3-3.

TABLE 3-2. NEW HAMPSHIRE DUMPS

Plant name	NEDS I.D.	Action	Update description
<u>Belknap County</u>			
Belmont	0010	Delete	No longer operating
Gilford	0011	Delete	No longer operating
Merideth	0012	Delete	No longer operating
Tilton	0013	Delete	No longer operating
<u>Carroll County</u>			
Bartlett	0003	Delete	No longer operating
Conway	0004	Delete	No longer operating
Moultonboro	0005	Delete	No longer operating
Ossipee	0006	Change	Annual fuel rate
Tamworth	0007	Delete	No longer operating
Wakefield	0008	Delete	No longer operating
Wolfboro (listed twice)	0009 and 0010	Delete	No longer operating
<u>Cheshire County</u>			
Chesterfield	0023	Delete	No longer operating
Alstead	0022	Delete	No longer operating
Fitzwilliam	0024	Delete	No longer operating
Hinsdale	0025	Delete	No longer operating
Jaffery	0026	Delete	No longer operating
Keene	0027	Delete	No longer operating, was VOC > 100
Marlboro	0028	Delete	No longer operating
Rindge	0029	Delete	No longer operating
Swanzey	0030	Delete	No longer operating
Troy	0031	Delete	No longer operating
Walpole	0032	Delete	No longer operating
Westmoreland	0033	Delete	No longer operating
Winchester	0034	Delete	No longer operating
<u>Coos County</u>			
Berlin	0005	Delete	No longer operating, was VOC > 100
Colebrook	0006	Delete	No longer operating
Gorham	0007	Delete	No longer operating
Groveton	0008	Delete	No longer operating, was VOC > 100
Lancaster	0009	Delete	No longer operating
Stewartson	0011	Delete	No longer operating
Stratford	0012	Delete	No longer operating
Whitefield	0013	Delete	No longer operating
Pittsburg	0010	Change	Annual fuel rate

(continued)

TABLE 3-2 (continued)

Plant name	NEDS I.D.	Action	Update description
<u>Grafton County</u>			
Bethlehem	0008	Delete	No longer operating
Bristol	0009	Delete	No longer operating
Enfield	0010	Delete	No longer operating
Franconia	0011	Delete	No longer operating
Hanover	0012	Delete	No longer operating
Haverhill	0013	Delete	No longer operating
Lebanon	0014	Delete	No longer operating
Lincoln	0015	Delete	No longer operating
Lisbon	0016	Delete	No longer operating
Plymouth	0017	Delete	No longer operating
<u>Hillsborough County</u>			
Amherst	0029	Delete	No longer operating
Bedford	0030	Delete	No longer operating
Bennington	0031	Delete	No longer operating
Brookline	0032	Delete	No longer operating
Francestown	0033	Delete	No longer operating
Goffstown	0034	Delete	No longer operating
Greenfield	0035	Delete	No longer operating
Greenville	0036	Delete	No longer operating
Hancock	0037	Delete	No longer operating
Hillsborough	0038	Delete	No longer operating
Litchfield	0039	Delete	No longer operating
Manchester	0040	Delete	No longer operating, was VOC > 100
Merrimack	0041	Delete	No longer operating, was VOC > 100
Milford	0042	Delete	No longer operating
Mount Vernon	0043	Delete	No longer operating
New Boston	0044	Delete	No longer operating
Pelham	0045	Delete	No longer operating
Petersborough	0046	Delete	No longer operating
Weare	0047	Delete	No longer operating
Wilton	0048	Delete	No longer operating
<u>Merrimack County</u>			
Andover	0010	Delete	No longer operating
Franklin	0011	Delete	No longer operating
Henniker	0012	Delete	No longer operating
Northfield	0013	Delete	No longer operating
Pittsfield	0014	Delete	No longer operating

(continued)

TABLE 3-2 (continued)

Plant name	NEDS I.D.	Action	Update description
<u>Rockingham County</u>			
Atkinson	0018	Delete	No longer operating
Auburn	0019	Delete	No longer operating
Chester	0020	Delete	No longer operating
Deerfield	0021	Delete	No longer operating
Derry	0022	Delete	No longer operating, was VOC > 100
Epping	0023	Delete	No longer operating
Exeter	0024	Delete	No longer operating
Greenland	0025	Delete	No longer operating
Hampton	0026	Delete	No longer operating
Hampton Falls	0027	Delete	No longer operating
Kingston	0028	Delete	No longer operating
Londonderry	0029	Delete	No longer operating
Newton	0030	Delete	No longer operating
North Hampton	0031	Delete	No longer operating
Nottingham	0032	Delete	No longer operating
Plaistow	0033	Delete	No longer operating
Raymond	0034	Delete	No longer operating
Rye	0035	Delete	No longer operating
Seabrook	0036	Delete	No longer operating
Windham	0037	Delete	No longer operating
<u>Strafford County</u>			
Barrington	0019	Delete	No longer operating, was VOC > 100
Durham	0020	Delete	No longer operating, was VOC > 100
Farmington	0021	Delete	No longer operating
Lee	0022	Delete	No longer operating
Milton	0023	Delete	No longer operating
Rollinsford	0024	Delete	No longer operating
Somersworth	0025	Delete	No longer operating
Stafford	0026	Delete	No longer operating
<u>Sullivan County</u>			
Charlestown	0006	Delete	No longer operating
Claremont	0007	Delete	No longer operating
Newport	0008	Delete	No longer operating
Sunapee	0009	Delete	No longer operating
Cornish	0010	Delete	No longer operating
Plainfield	0011	Delete	No longer operating

TABLE 3-3. NEW HAMPSHIRE PRINCIPAL NO_x SOURCES

Plant name	NEDS I.D.	Action	Update description
<u>Coos County</u>			
Brown Company-Gorham	0001	Change	Annual fuel rate
Brown Co.-Berlin	0002	Change	Annual fuel rate
Groveton Papers	0004	Change	Annual fuel rate
Balsams Hotel & Tillotson Rubber	0014	Change	Annual fuel rate
<u>Grafton County</u>			
Dartmouth College	0020	Change	Annual fuel rate
<u>Hillsborough County</u>			
Foster Grant ^a	0007	Change	Name changed to American Hoechst, Annual fuel rate
Monadnock Paper ^a	0070	Change	Add name, Annual fuel rate
Seal Tanning	0008	Delete	No longer operating
Waumbec Dye	0004	Delete	No longer operating
<u>Merrimack County</u>			
N.H. Hospital	0032	Change	Annual fuel rate
<u>Rockingham County</u>			
Clemson Auto Fabrics ^a	0041	Change	Year of record only
<u>Strafford County</u>			
Spaulding Fibre Milton ^a	0012	Change	Annual fuel rate
United Tanners	0003	Delete	No longer operating

^aCurrently less than 100 TPY NO_x.

TABLE 3-4. NEW HAMPSHIRE PRINCIPAL VOC SOURCES
GREATER THAN 100 TPY

Plant name	NEDS I.D.	Action	Update description
<u>Cheshire County</u>			
MPB Corp. Precision Park	0013	Change	Annual fuel rate, now < 25 TPY
Troy Mills	0016	Change	Annual fuel rate
Markem Corp.	0039	Delete	Duplicate of 0042
Market Corp.	0042	Change	Annual fuel rate
<u>Hillsborough County</u>			
Nashua Corp.	0026	Change	Annual fuel rate
Nashua Corp.	0072	Change	Annual fuel rate
Prevue Products	0078	Change	Annual fuel rate
Triangle Pacific Cabinets	0092	Change	Annual fuel rate
Batesville Casket	0093	Change	Annual fuel rate
Interstate Uniform	0109	Change	Annual fuel rate
<u>Merrimack County</u>			
Brezner Tanning	0036	Change	Name changed to Allied Leather, annual fuel rate, now SO ₂ source only
Atlantic Laminates	0038	Change	Annual fuel rate
<u>Rockingham County</u>			
USM Corp. - Bailey	0058	Change	Annual fuel rate
Mobile Oil	0061	Change	Annual fuel rate
Atlantic Term. Corp.	0063	Change	Fuel rate update by SCC
Essex Int'l	0043	Change	Annual fuel rate
Northeast Petroleum	0055	Change	Year of record only
Union Oil	0057	Change	Fuel rate update by SCC
Atlantic Terminal Corp.	0062	Change	Fuel rate update by SCC
Ideal Tape	0069	Change	Annual fuel rate
Kingston Warren	0070	Change	Annual fuel rate
<u>Strafford County</u>			
Davidson Rubber	0027	Change	Annual fuel rate
Davidson Rubber	0002	Change	Year of record only
G.E.	0035	Change	Year of record only

TABLE 3-5. NEW HAMPSHIRE PRINCIPAL RACT SOURCES
GREATER THAN 50 TPY

Plant name	NEDS I.D.	Action	Update description
<u>Belknap County</u>			
Allen-Rodgers	0001	Change	Annual fuel rate
Quin-T	0025	Change	Annual fuel rate
Bergen Patterson	0026	Add	All information - new source
<u>Carroll County</u>			
Yield House	0014	Change	Annual fuel rate
<u>Cheshire County</u>			
Whitney Bros.	0015	Change	Annual fuel rate
Sprague & Carlton	0009	Change	Annual fuel rate
Hedstrom Company	0008	Change	Annual fuel rate
<u>Coos County</u>			
Converse Rubber	0003	Delete	No longer operating
<u>Grafton County</u>			
Rockwell International	0022	Change	Annual fuel rate
<u>Hillsborough County</u>			
Hermisdorf Fixture	0005	Change	Annual fuel rate
Beebe Rubber	0020	Change	Annual fuel rate
Johns - Manville	0023	Change	Year of record only
Hampshire Mfg.	0096	Change	Annual fuel rate
GTE Sylvania	0107	Change	Annual fuel rate, now < 25 TPY
Sanders Assoc.	0110	Delete	Duplicate of 0083
Sprague Elec.	0111	Change	Annual fuel rate
<u>Merrimack County</u>			
Rumford Press	0044	Change	Year of record only
<u>Rockingham County</u>			
Simplex Wire	0006	Change	Annual fuel rate
Gulf Oil	0047	Change	Annual fuel rate by SCC, now < 25 TPY
Kingston Steel	0051	Delete	No longer operating
Colonial Cleaners	0067	Change	Year of record only

(continued)

TABLE 3-5 (continued)

Plant name	NEDS I.D.	Action	Update description
<u>Strafford County</u>			
Moore Bus. Forms	0005	Change	Annual fuel rate
Action Industries	0039	Change	Annual fuel rate
<u>Sullivan County</u>			
Sturm-Ruger	0019	Change	Annual fuel rate by SCC, now < 50 TPY
Hampshire Mfg-Clermont	0020	Add	All information - new source

TABLE 3-6. NEW HAMPSHIRE PRINCIPAL SO₂ SOURCES
GREATER THAN 100 TPY

Name	NEDS I.D.	Action	Update description
<u>Cheshire County</u>			
Paper Service	0003	Change	Annual fuel rate
Ashuelot Paper	0004	Change	Annual fuel rate
AC Lawrence Leather	0021	Change	Annual fuel rate
Hindsdale Products	0037	Change	Annual fuel rate
<u>Grafton County</u>			
L.W. Packard	0001	Change	Annual fuel rate
Hitchcock Hosp.	0025	Change	Annual fuel rate
Plymouth St. College	0033	Change	Annual fuel rate
<u>Hillsborough County</u>			
Anheuser Busch	0017	Change	Annual fuel rate
Sanders Assoc.	0027	Change	Annual fuel rate
Nashua NH Foundation	0028	Change	Annual fuel rate
<u>Merrimack County</u>			
Concord Steam	0005	Change	Annual fuel rate
USM Corp.	0007	Change	Annual fuel rate
Concord Hosp.	0017	Change	Annual fuel rate
Brezner Tanning	0037	Change	Name changed to Allied Leather, annual fuel rate, now < 25 TPY
<u>Rockingham County</u>			
Phillips Exeter	0004	Change	Annual fuel rate
CH Sprague	0040	Change	Annual fuel rate
<u>Strafford County</u>			
W.H. Elliot	0001	Change	Annual fuel rate
Univ. of N.H.	0009	Change	Annual fuel rate
Spaulding Fibre-Rochester	0013	Change	Annual fuel rate
Gt. Falls Bleachery	0017	Change	Annual fuel rate
G.E.	0018	Change	Annual fuel rate
<u>Sullivan County</u>			
Claremont Paper	0001	Change	Annual fuel rate
Coy Paper	0002	Change	Annual fuel rate
Joy Mfg.	0003	Change	Annual fuel rate
Door Woolen	0005	Change	Annual fuel rate
Dartmouth Woolen	0013	Change	Annual fuel rate

TABLE 3-7. NEW HAMPSHIRE PRINCIPAL CO SOURCE
GREATER THAN 500 TPY

Plant name	NEDS I.D.	Action	Update description
<u>Hillsborough County</u>			
Manchester Incinerator	0015	Delete	No longer operating

TABLE 3-8. NEW HAMPSHIRE PUBLIC SERVICE COMPANIES

Name	NEDS I.D.	Action	Update description
<u>Carroll County</u>			
White Lake Plant	0012	Change	Annual fuel rate
<u>Coos County</u>			
Lost Nation	0018	Change	Annual fuel rate
<u>Hillsborough County</u>			
Kelleys Station	0014	Delete	No longer operating
Manchester Plant	0079	Change	Annual fuel rate
<u>Merrimack County</u>			
Merrimack Plant ^a	0026	Change	Annual fuel rate
<u>Rockingham County</u>			
Daniel St. ^a	0011	Change	Annual fuel rate
Schiller Plant ^a	0012	Change	Annual fuel rate
Newington Station ^a	0054	Change	Annual fuel rate
Schiller Station	0056	Change	Year of record only

^aNO_x > 750 and SO₂ > 100.

Table 3-8 summarizes the Public Service Companies. Merrimack Plant, Daniel St., Schiller Plant and Newington Station each emit NO_x greater than 750 TPY and SO₂ greater than 100 TPY. The others can be classified as small sources.

The final table, 3-9, lists the updates made to sources which were missing some or all of the pertinent information. Most are sources emitting less than 25 tons of the criteria pollutants or are no longer in operation. Two sources, Fuel Storage Corporation and New England Tank Industries, merged; therefore New England Tank was deleted and the appropriate points added to Fuel Storage Corporation.

VERMONT POINT SOURCE UPDATE

A total of 53 point sources were updated for the state of Vermont. It was determined that it is not viable to do a complete update of all small sources in the state although 16 sources falling into that category were updated because of missing data.

Tables 3-10 through 3-15 summarize all NEDS updates made by category. Each source appears in the table appropriate before the update was made. These tables parallel those for New Hampshire and are, for the most part, self-explanatory. Plants which closed were deleted from the NEDS files. In some cases it was necessary to update boiler size, fuel heat content, and sulfur content as well as the annual fuel rate. Updates of this nature are indicated by the phrase "Fuel Data" in the Update Description. Changes noted by "Annual Fuel Rate" apply to the operating rate appropriate for the applicable SCC category.

Table 3-10 shows changes to Burlington Electric and Light Department which emits more than 100 tons of NO_x each year. This plant is an example of a change in boiler fuel type where data for oil and wood are added to points 01 through 03 as well as updating the usage rate for natural gas. The other tables have a similar format. Where actions for specific points within a source are not detailed, it may be assumed that the same action was used throughout the source. Simmonds plant (source 0011 in Addison County) on Table 3-15 was deleted since it was found to duplicate source 0006 listed in Table 3-11. Of the 19 sources with missing data in Table 3-15, nearly all (16) were found to be small sources, not falling into any of the other categories. The remaining three sources, Bemis-Rygate Mill, Whitefield Paper, and Boise-Cascade all emit more than 100 tons of SO₂ each year.

TABLE 3-9. NEW HAMPSHIRE SOURCES WITH INFORMATION MISSING

Name	NEDS I.D.	Action	Update description
<u>Carroll County</u>			
New England Pulp & Paper	0038 (Grafton) ^a	Delete	No longer operating
<u>Grafton County</u>			
International Packings ^b	0002	Change	Annual fuel rate
<u>Hillsborough County</u>			
American Velcro ^b	0049	Change	Name changed to Velcro USA, annual fuel rate
Sanders Assoc. ^c	0083	Change	Name added, annual fuel rate
<u>Rockingham County</u>			
Pease AFB ^d	0016	Change	Annual fuel rate
Fuel Storage Corp. ^b	0068	Change	Annual fuel rate, combined with New England Tank (0053)
Atlantic Terminal Sales	0038	Change	Year of record only
Coleman Oil	0042	Delete	No longer operating
National Urethane Products	0052	Delete	No longer operating
New England Tank Ind.	0053	Delete	Combined with Fuel Storage (0068)

^aNEDS lists in Grafton County, actually in Carroll County.

^bVOC > 100 TPY.

^cRACT > 5C TPY.

^dSO₂ > 100 TPY.

TABLE 3-10. VERMONT NO_x SOURCE GREATER THAN 100 TPY

Plant name	Plant ID	Action	Update description
<u>Chittenden</u>			
BELD Moran	0003	Add	Points 01-03: Fuel types oil & wood
(Burlington Elec. and Light Dept.)		Change	Points 01-08: Fuel Data

TABLE 3-11. VERMONT SOURCES OF VOC GREATER THAN 100 TPY

Plant name	Plant ID	Action	Update description
<u>Addison</u>			
Simmonds	0006	Change	Points 01-05: Annual Fuel Rates & Stack Height
		Delete	Points 09: No longer operating
		Change	Point 10: Annual Fuel Rate
Weyerhaeuser	0007	Change	Points 03,04,06: Fuel Data
<u>Chittendon</u>			
Gulf Oil	0013	Change	Name to Astroline Petroleum
		Change	Points 01-09: Annual Fuel Rates, Tank Dimensions
Mobil Oil	0021	Change	Tank Parameters, Annual Fuel Rate
Texaco	0026	Change	Name to Cray Energy
Vermont Furniture Co.	0034	Change	Annual Fuel Rate to 0 - No longer Manufactures Furniture
<u>Essex</u>			
Ethan Allen	0002	Change	Fuel Data
<u>Franklin</u>			
Stanpack, Fonda Cont.	0009	Change	Name to Saxon Ind., Inc., Fonda Contr., Annual Fuel Rate and Stack Parameters
<u>Orange</u>			
Ethan Allen	0004	Change	Annual Fuel Rates
<u>Orleans</u>			
Ethan Allen	0002	Change	Fuel Data
<u>Rutland</u>			
Rutland Plywood - Carris Reels	0013	Change	Annual Fuel Rates
		Delete	Point 05: No longer operating
<u>Windham</u>			
American Optical	0002	Add	New Point 01 for Boiler
		Change	Point 02: Annual Fuel Rate
<u>Windsor</u>			
Goodyear Tire	0007	Add	Points 01 & 02: Boilers not prev. included
		Change	Points 03-05: Annual Fuel Rates

TABLE 3-12. VERMONT VOC RACT SOURCES GREATER THAN 50 TPY

Plant name	Plant ID	Action	Update description
<u>Bennington</u>			
Cornish Wire	0005	Change	Name to General Cable, Fuel Data, Stack Parameters
Green Mountain Furniture	0008	Delete	No longer operating
Stanley Tools	0012	Delete	No longer operating
Union Carbide	0013	Change	Points 01 & 02: Fuel Data, Stack Parameters
		Change	Points 03 & 04: Annual Fuel Rates
		Delete	Points 05 & 06: No longer operating
Ben-Mont Paper	0001	Change	Points 01 & 02: Stack Parameters, Fuel Data
		Change	Point 03: Annual Fuel Rate
<u>Chittendon</u>			
Amoco	0002	Change	Name to Vermont Morgan, Annual Fuel Rates
Exxon	0006	Change	Points 02-07: Fuel data and capacity
		Add	Point 01: All information-gasoline storage
Green Mountain Petroleum	0012	Change	Points 01-04: Stack Parameters, Fuel Data
		Delete	Points 05-05: No longer operating
IBM	0016	Change	Points 01-03: Annual Fuel Rates, SCC
		Delete	Points 04-05: No longer operating
Northern Oil	0022	Change	Tank Parameters, Annual Fuel Rate
		Add	Points 04-05: All information
Shell Oil	0024	Delete	No longer operating
Elias Lyman Oil	0004	Change	Fuel Data, Stack Parameters
Haveg Industries	0014	Change	Annual Fuel Rates
<u>Orange</u>			
Bradford Veneer	0001	Delete	No longer operating
<u>Windsor</u>			
Cone-Blanchard	0003	Change	Annual Fuel Rate

TABLE 3-13. VERMONT TSP SOURCES GREATER THAN 100 TPY

Plant name	Plant ID	Action	Update description
<u>Lamoille</u>			
Pratt, Read	0004	Change	Stack Temperatures and annual fuel rates
<u>Oreleans</u>			
Indian Head Plywood	0004	Change Add	Fuel Data Point 02
<u>Rutland</u>			
True Temper Corp.	0015	Change Change	Point 01: Stack parameters Point 02: Annual fuel rate

TABLE 3-14. VERMONT SO₂ SOURCES GREATER THAN 100 TPY

Plant name	Plant ID	Action	Update description
<u>Bennington</u>			
Pownal Tanning	0010	Change	Fuel Data
<u>Orleans</u>			
H.P. Hood	0003	Delete	No longer operating

TABLE 3-15. VERMONT SOURCES WITH INFORMATION MISSING

Plant name	Plant ID	Action	Update description
<u>Addison</u>			
Simmonds	0011	Delete	Duplicate of source 0006
Kraft Foods	0002	Change	Add Fuel Data & Stack Temperatures
Middleburg College	0004	Change	Points 02 & 04 converted to coal
		Change	Points 01-05: Fuel Data and Stack Parameters
<u>Caledonia</u>			
Bemis-Rygate Mill	0001	Change	Name to CPM-Rygate Mill, Stack Heights, fuel data
<u>Chittendon</u>			
Milton Steam	0020	Change	Year of Record
United Realty	0028	Delete	No longer operating
<u>Essex</u>			
Whitefield Paper	0005	Change	Annual fuel rate & stack temperature
<u>Franklin</u>			
Vermont Whey	0013	Change	Year of record
<u>Rutland</u>			
Brandon Training	0001	Change	Fuel data
Castleton State College	0002	Change	Fuel data
<u>Washington</u>			
Cabot Farmers	0001	Change	Fuel data
Vermont State Hospital	0017	Change	Year of Record
<u>Windham</u>			
Boise-Cascade	0003	Change	Fuel data
Brattleboro Retreat	0007	Change	Fuel data
Cerosimo Lumber	0008	Change	Fuel data
Erving Paper Mills	0009	Change	Fuel data
Mountain Paper Products	0011	Delete	No longer operating
Putney Paper	0012	Change	Fuel data
Robertson Paper	0013	Change	Fuel data

SECTION 4

SUMMARY

To obtain the best possible emissions data for NECRMP, GCA has thoroughly reviewed and updated the New Hampshire and Vermont point source inventories. All data for updates were provided by the appropriate state agencies and are valid for 1979.

Table 4-1 summarizes the total number of updates for each state. All sources identified as meeting the criteria listed in Table 2-1 were updated. In addition, small sources were also updated where feasible. In New Hampshire, 112 of the 209 small sources were included in the updates, many of which consist of deletion of dumps from the NEDS files as requested by New Hampshire personnel. Sixteen of a total of 126 small sources were updated for Vermont. The percent of total sources updated that appears in Table 4-1 represents the total number of sources updated divided by the total number of sources before the deletions and additions. Table 4-1 shows that 66.8 percent of all point sources in New Hampshire and 32.7 percent of Vermont point sources have been updated to reflect the most recent available data.

TABLE 4-1. SUMMARY OF NEDS TRANSACTIONS FOR
NEW HAMPSHIRE AND VERMONT

	New Hampshire	Vermont
Source deletions	114	8
Source additions	2	0
Sources with information changes	95	45
Total sources updated	211	53
Total sources before update (excludes additions)	316	162
% Sources updated	66.8	32.7

SECTION 5

REFERENCES

1. New Hampshire Air Pollution Control Commission. Regulation No. 22: Prevention, Abatement, and Control of Volatile Organic Compound Emissions. July 1979.
2. Vermont Agency of Environmental Conservation. Air Pollution Control Regulations. November 1979.
3. Calculations and Coding of Volatile Organic Source Emissions in New Hampshire. EPA-902/9-79-006. February 1979.
4. Agency of Environmental Conservation, State of Vermont. Air Quality Implementation Plan. November 1979. pp. 6-13 to 6-47.